

Title (en)  
CUTTING INSERT WITH ELLIPTICAL CUTTING EDGE

Title (de)  
SCHNEIDEINSATZ MIT ELLIPTISCHER SCHNEIDKANTE

Title (fr)  
ACCESSOIRE DE COUPE A BORD COUPANT ELLIPTIQUE

Publication  
**EP 1622747 A4 20081119 (EN)**

Application  
**EP 04760821 A 20040421**

Priority  
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Abstract (en)  
[origin: US2004223818A1] A cutting insert comprises an elliptical cutting edge. The cutting insert has a mounting hole through which a retention screw may pass, wherein the retention screw makes contact with the mounting hole in a seating plane that is perpendicular to the mounting hole. The cutting insert is adapted for use in a cutting tool comprising a tool body having a pocket partially defined by a floor that is parallel to a seating plane. The insert can have a shape complimentary to a tool body so as to cooperate with the tool body to form a continuous flute. According to one embodiment of the invention, the insert has a flank edge inboard with respect to the tool body. An insert according to another embodiment of the invention has a rake face with a positive cutting geometry.

IPC 8 full level  
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Citation (search report)  
• [X] WO 02055245 A1 20020718 - SANDVIK AB [SE], et al  
• [A] DE 2102479 A1 19720803 - HERTEL K  
• See references of WO 2004101235A2

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